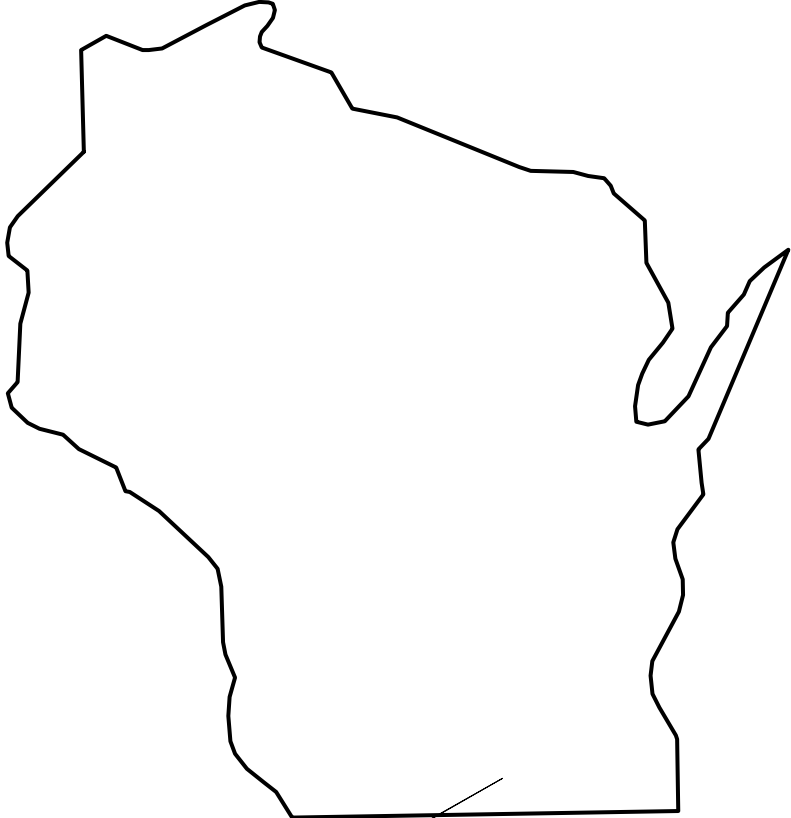


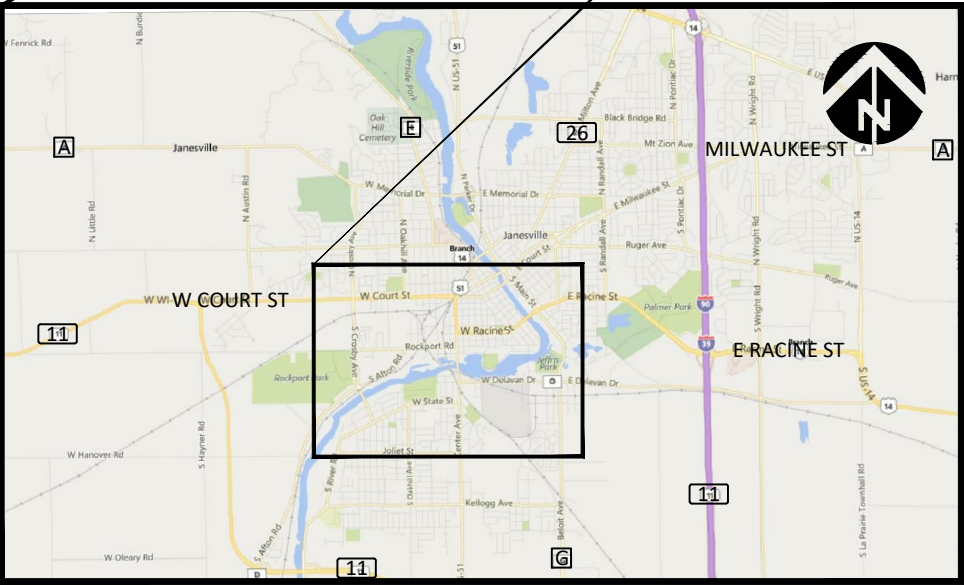
MONTEREY DAM REMOVAL

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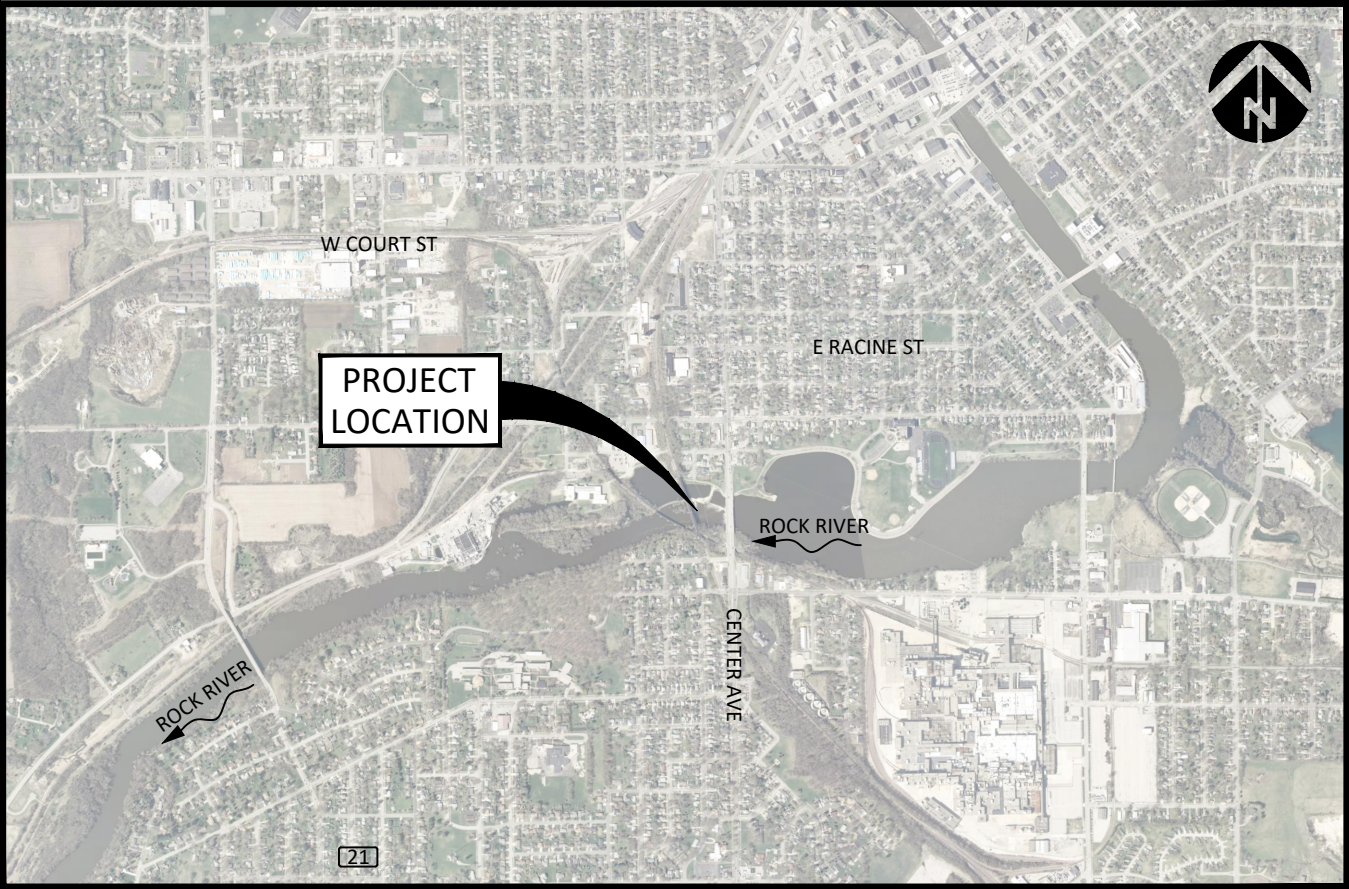
DRAFT 99% Design, August 24, 2017



LOCATION MAP - WISCONSIN
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



LOCATION MAP
SCALE 1" = 2000'

SHEET LIST

- 1 - TITLE SHEET & SHEET INDEX
- 2 - GENERAL NOTES
- 3 - SITE PLAN
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- 5 - PROPOSED CONDITIONS SHEET 1 OF 3
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TITLE SHEET & SHEET INDEX

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GENERAL PROJECT NOTES

1.

THE UNDERGROUND UTILITY INFORMATION, AS SHOWN HERE, IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, IT'S ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED OR CERTIFIED.
2.

PRIOR TO EXCAVATION CALL TOLL FREE, DIGGERS HOTLINE, 1-800-242-8511. COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
3.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988, NAVD 88. COORDINATES ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1983(NAD83 WISCONSIN STATE PLANES, SOUTH ZONE, US FOOT).
4.

PROJECT CONTROL: SEE CONTROL POINT TABLE ON SHEET 3.
5.

THE CONTRACTOR SHALL FIELD VERIFY THE FOLLOWING:

•

5.1. ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK,

•

5.2. PAVEMENT & UTILITY ELEVATIONS WHERE MATCHING INTO EXISTING WORK,

•

5.3. HORIZONTAL CONTROL BY REFERENCING SHOWN DIMENSIONS TO KNOWN PROPERTY LINES. NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
6.

CONTRACTOR SHALL PROTECT AND MAINTAIN BENCHMARKS AND SURVEY CONTROL POINTS FROM DISTURBANCE DURING CONSTRUCTION.
7.

CONTRACTOR SHALL PROTECT EXISTING SITE IMPROVEMENTS TO REMAIN FROM DAMAGE DURING CONSTRUCTION. COST TO RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE BY THE OWNER, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8.

CONTRACTOR SHALL MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING CONSTRUCTION OPERATIONS. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, DRIVEWAYS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY OWNER OR AUTHORITIES HAVING JURISDICTION.

UTILITY CONTACTS

AGENCY CONTACTS

ALWAYS CALL BEFORE YOU DIG
CALL 811 OR (800) 242-8511
(262) 432-7910
(877) 500-9592 EMERGENCY ONLY



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GENERAL NOTES



SUGGESTED CONSTRUCTION SEQUENCE

1.

CONTRACTOR SHALL SUBMIT A DEWATERING AND DEMOLITION PLAN AT LEAST TWO WEEKS PRIOR TO BEGINNING OF DAM REMOVAL WORK. DAM DEMOLITION MAY BE COMPLETED “IN THE WET” WITHOUT ISOLATING THE DAM FROM THE FLOWING RIVER.
2.

ACCESS TO THE DAM SHALL BE WITHIN THE RIVER. CONTRACTOR MAY TEMPORARILY PLACE STONE WITHIN THE RIVER TO ACCESS ALL LOCATIONS ALONG THE DOWNSTREAM FACE OF THE DAM. ACCESS TO THE RIVER SHALL BE FROM THE NORTH SIDE OF THE RIVER.
3.

CONTRACTOR MAY TEMPORARILY PLACE STONE AND/OR CULVERTS IN THE RIVER TO FACILITATE ACCESS TO THE DOWNSTREAM FACE OF THE DAM FOR THE PURPOSES OF DEMOLISHING THE DAM. ALL MATERIAL PLACED IN THE RIVER TO FACILITATE ACCESS MUST BE REMOVED UPON COMPLETION OF THE DAM REMOVAL.
4.

PROTECT BRIDGE PIERS AS REQUIRED BY THE CITY AND WDOT. (MORE TO BE INSERTED HERE FOLLOWING STRUCTURAL RECOMMENDATION)
5.

BEGIN REMOVING THE DAM STARTING AT THE SOUTH SIDE TO ALLOW FOR EXIT FROM THE RIVER WITHOUT CROSSING THE MOST CONCENTRATED FLOW. THE DAM MAY ONLY BE REMOVED AT A RATE THAT ALLOWS THE IMPOUNDMENT WATER SURFACE ELEVATION TO DROP 6 INCHES PER DAY.
6.

INSTALL RIPRAP WHERE CONCRETE WAS REMOVED ADJACENT TO THE SOUTH BRIDGE ABUTMENT.
7.

WHEN ALL FLOW IS GOING THROUGH THE NOTCH WHERE THE DAM IS REMOVED, INSTALL TURBIDITY CURTAIN WHERE SHOWN. THE PARALLEL SPILLWAY OF THE DAM SHOULD BE LEFT IN PLACE WHILE THE TOE OF THE BANK IS CONSTRUCTED TO CONTROL SEDIMENT.
8.

AFTER THE WATER SURFACE ELEVATION DROPS BELOW THE TOP OF THE GATES, SUCH THAT NO WATER IS FLOWING OVER THEM, REMOVED DAM CONCRETE AND SOIL MAY BE DISPOSED WITHIN THE FILL AREAS. CONCRETE MUST BE BROKEN INTO PIECES NOT LARGER THAN 6” PRIOR TO REUSE AS FILL MATERIAL. ALL EXPOSED REBAR MUST BE REMOVED FROM THE CONCRETE PRIOR TO REUSE AS FILL MATERIAL.
9.

REMOVE VINYL SHEET PILE WALL TO AT LEAST 2 FT BELOW PROPOSED GRADE.
10.

REMOVE GATE AND CULVERT STRUCTURES TO AT LEAST 2 FT BELOW PROPOSED GRADE.
11.

PLACE STONE TOE WHERE SHOWN FOR CONSTRUCTED BANK.
12.

FINISH GRADING BERMS.
13.

REMOVE TEMPORARY TURBIDITY CURTAIN.
14.

REMOVE AND DISPOSE OF PARALLEL SECTION OF THE SPILLWAY.
15.

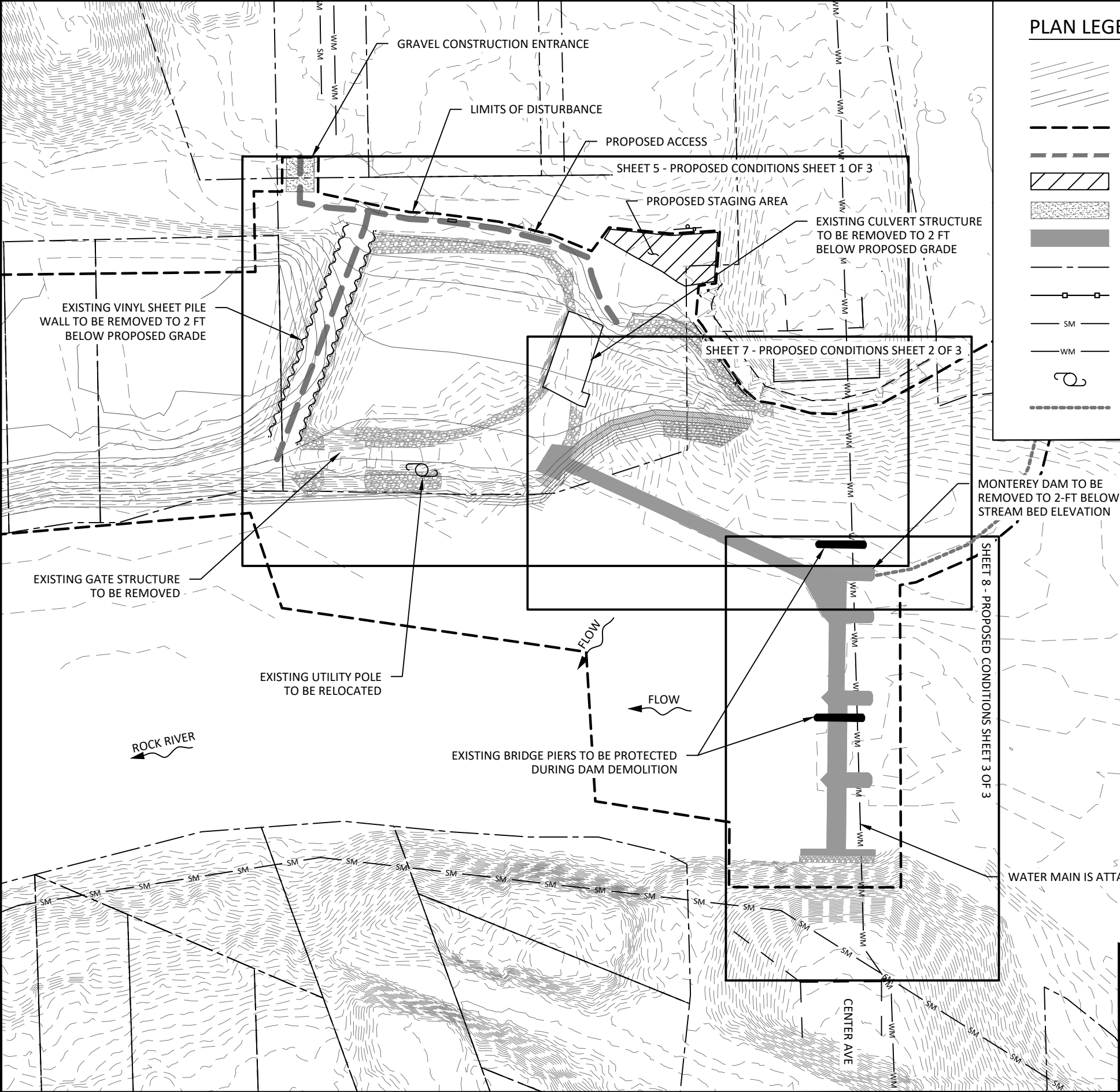
BUILD FABRIC ENCAPSULATED SOIL LIFTS WHERE SHOWN.
16.

PLACE TOPSOIL WHERE SHOWN, SEED AS DESCRIBED IN THE SPECIFICATIONS, AND INSTALL FINAL SURFACE FABRIC.
17.

RESTORE DISTURBED AREAS OUTSIDE OF THE GRADING LIMITS TO PRE-PROJECT CONDITIONS.

PLAN LEGEND

- EXISTING 1 FT CONTOUR
- PROPOSED 1-FT CONTOUR
- LIMITS OF DISTURBANCE
- TEMPORARY ACCESS
- PROPOSED STAGING AREA
- GRAVEL CONSTRUCTION ENTRANCE
- DAM TO BE REMOVED
- EXISTING PROPERTY LINES
- PROPOSED SILT FENCE - TBD
- SANITARY MAINS
- WATER MAINS
- UTILITY POLE LOCATION APPROX.
- TEMPORARY DEWATERING BARRIER



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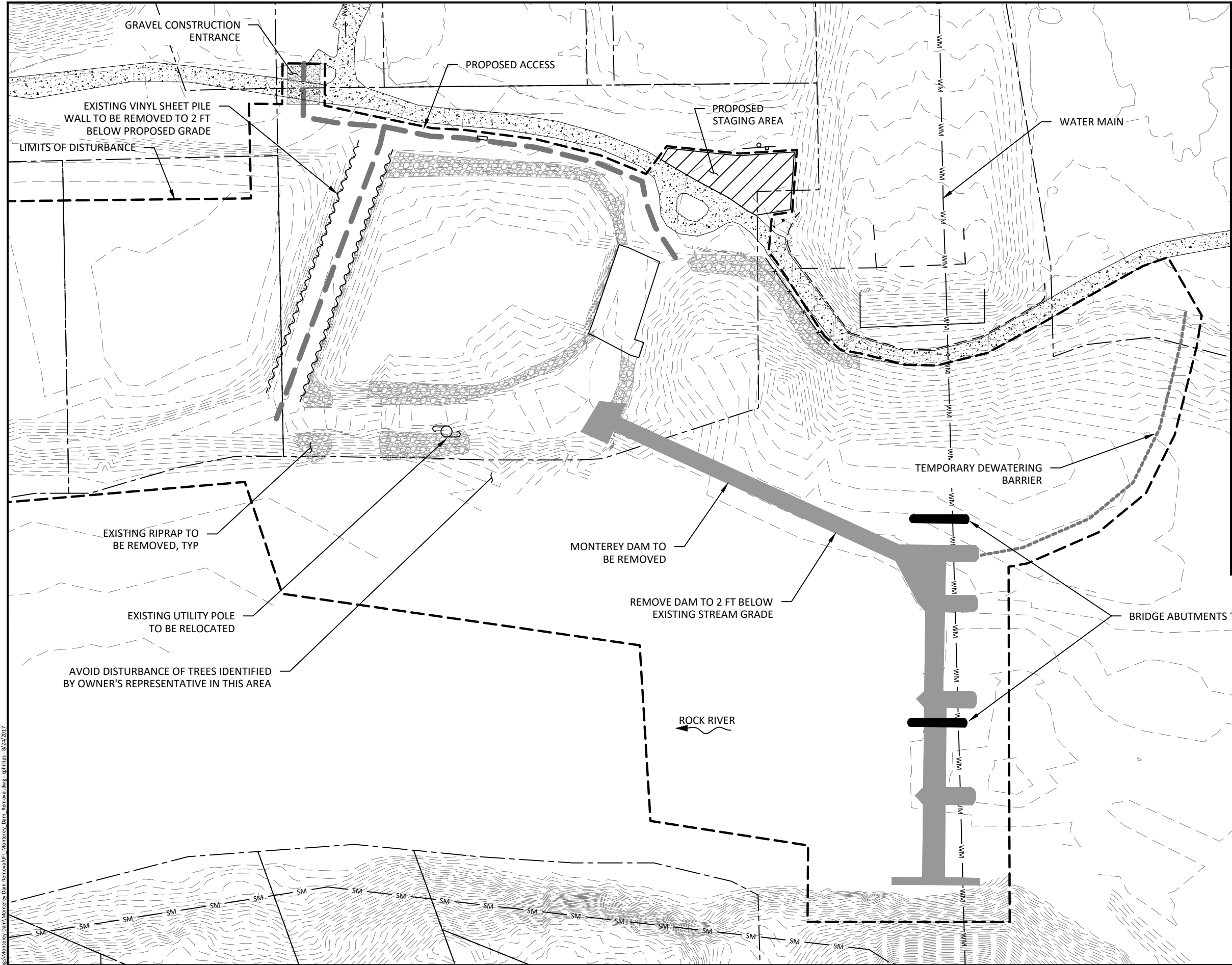
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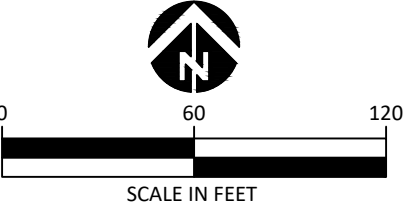
SITE PLAN

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PLAN LEGEND

- EXISTING 1 FT CONTOUR
- LIMITS OF DISTURBANCE
- PROPOSED ACCESS
- PROPOSED STAGING AREA
- GRAVEL CONSTRUCTION ENTRANCE
- EXISTING PROPERTY LINES
- PROPOSED SILT FENCE - TBD
- WATER MAINS
- UTILITY POLE LOCATION APPROX.
- TEMPORARY DEWATERING BARRIER
- BIKE PATH
- EXISTING RIPRAP TO BE REMOVED



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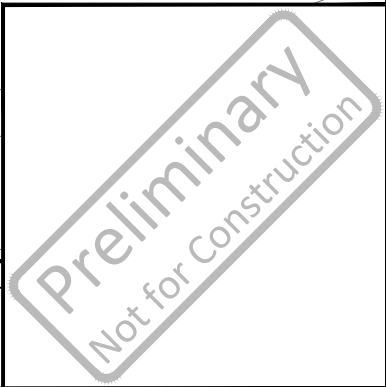
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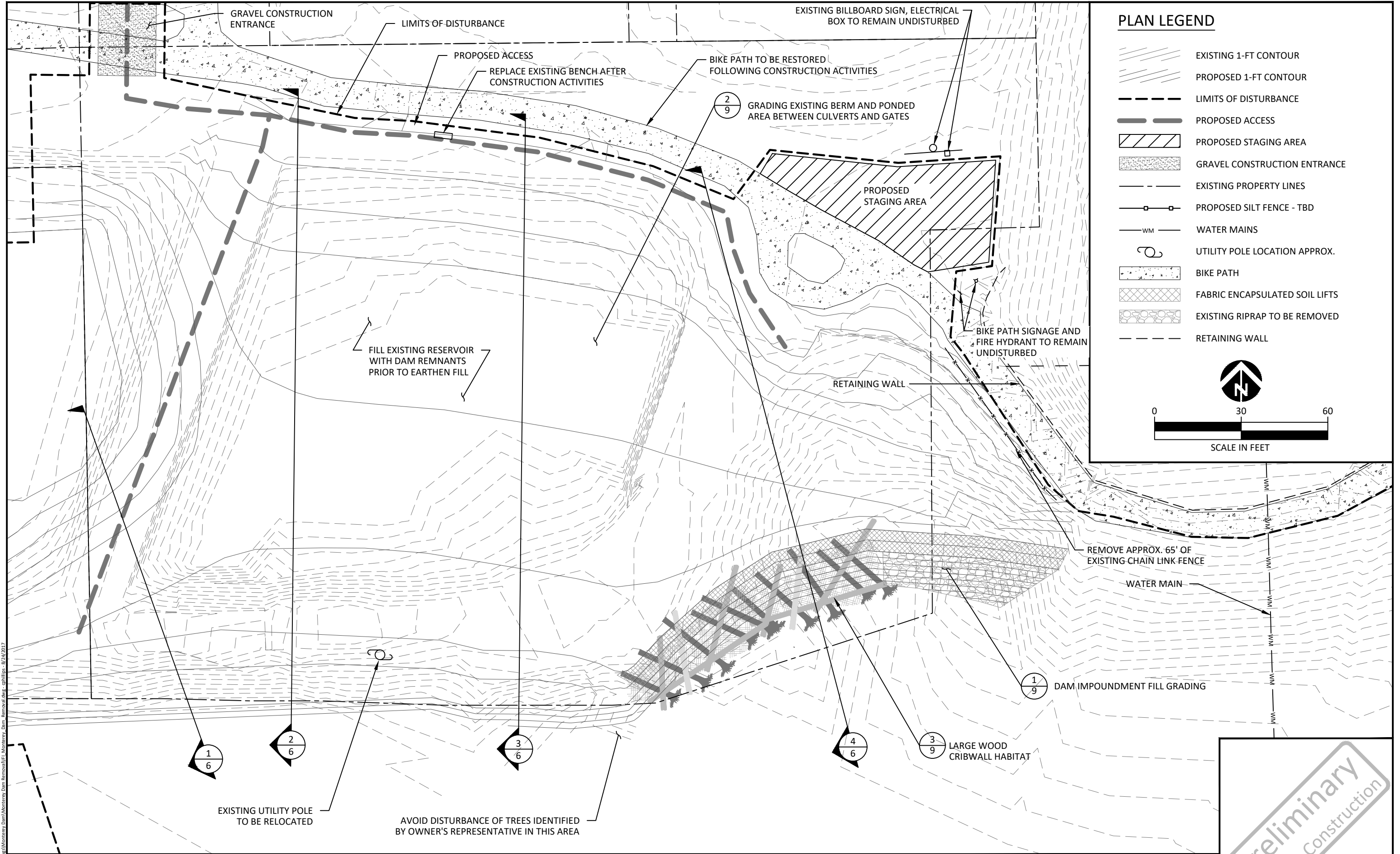
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DEMOLITION PLAN





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PROPOSED CONDITIONS

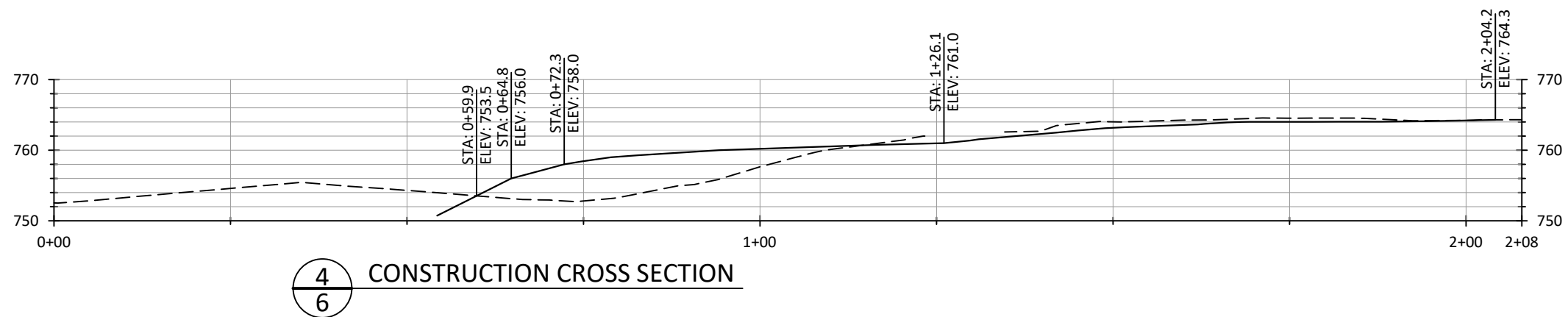
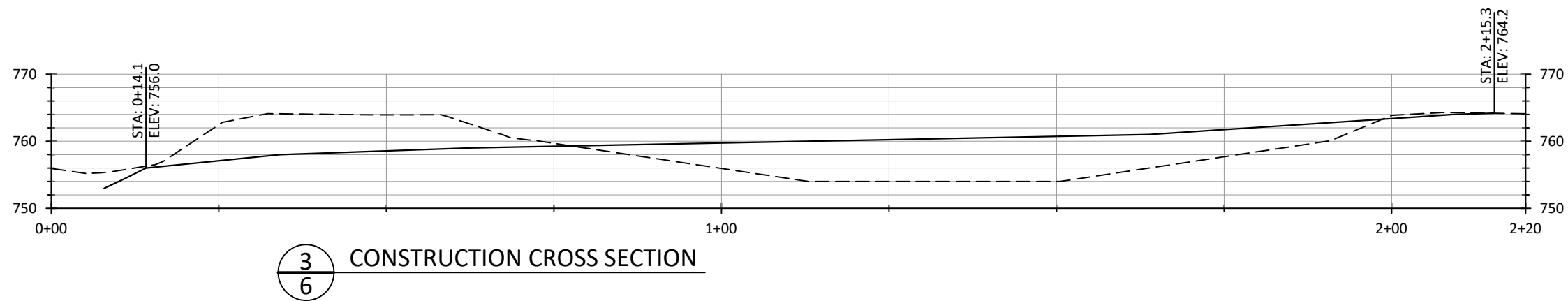
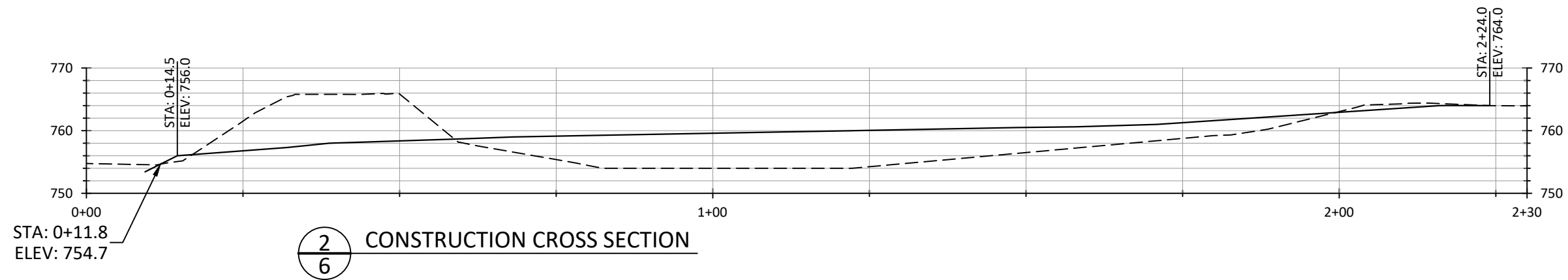
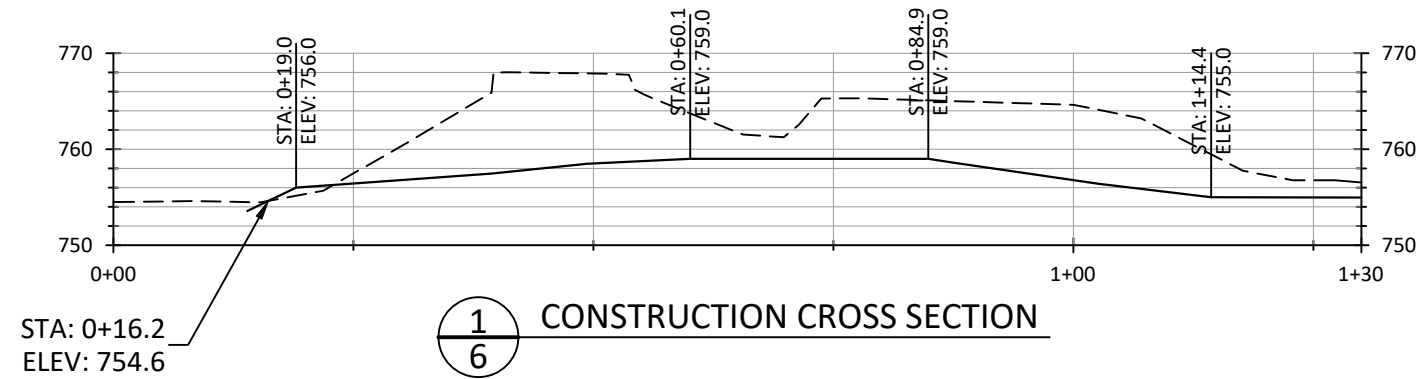
SHEET 1 OF 3

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LEGEND

--- EXISTING GRADE
— PROPOSED GRADE

SCALE: 1" = 20'
1x VERTICAL EXAGGERATION
SCALE: 1" = 20'

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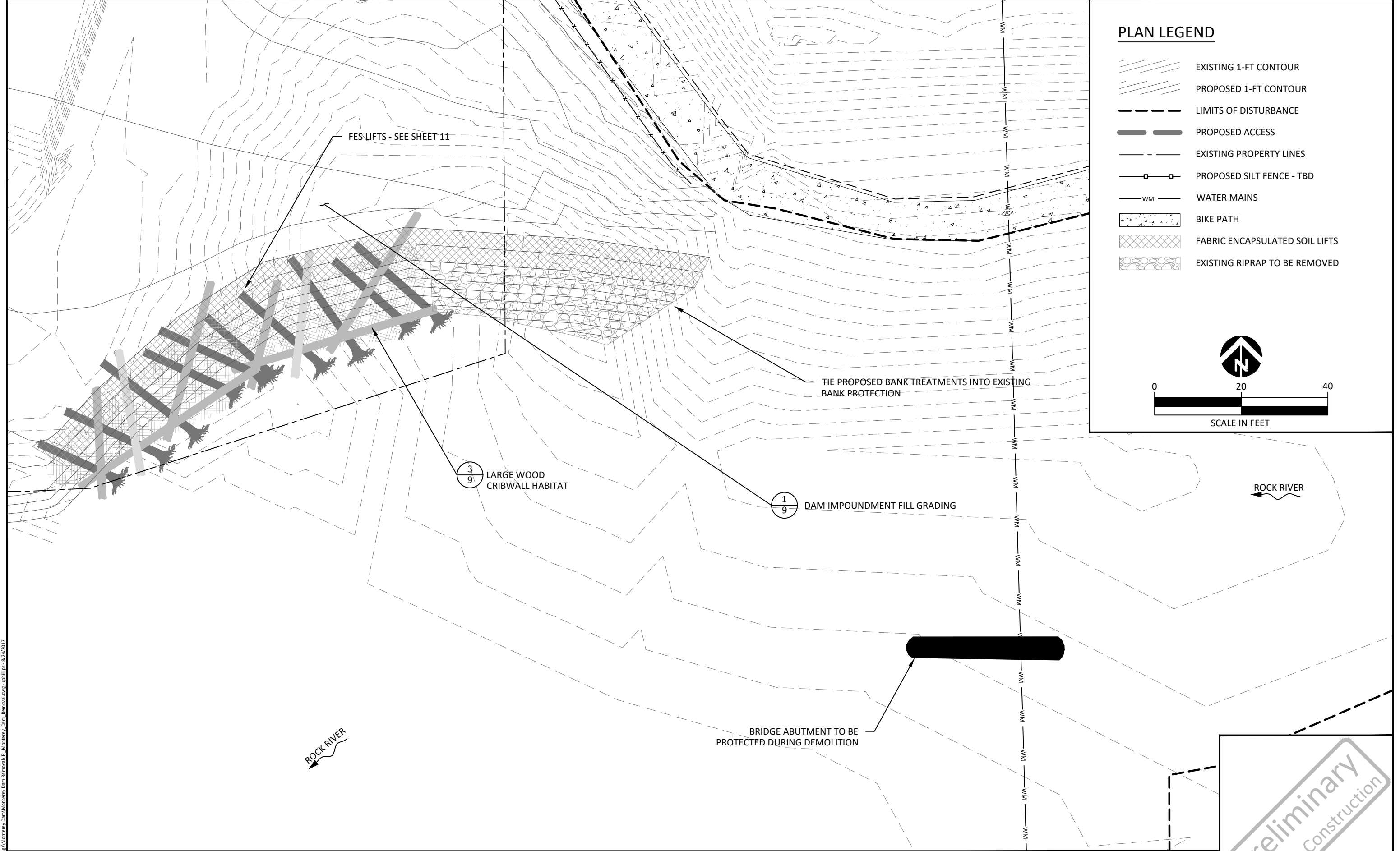


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CONSTRUCTION CROSS
SECTIONS

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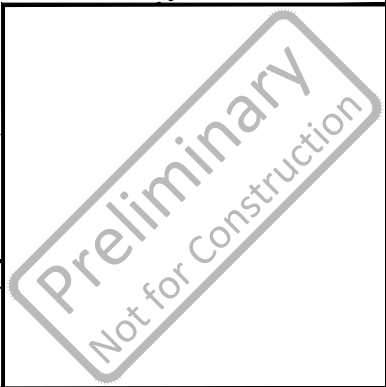
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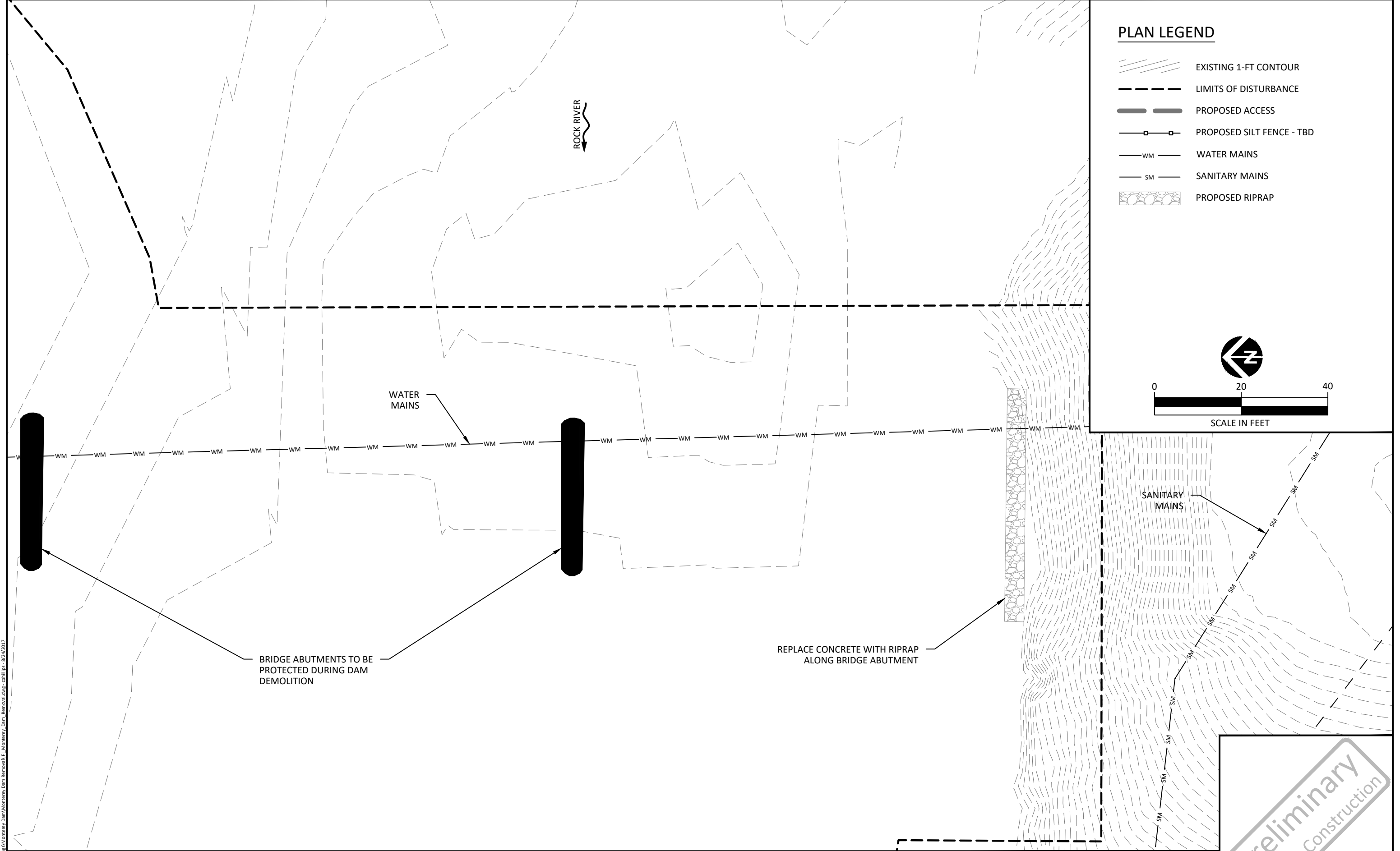


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PROPOSED CONDITIONS
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PLAN LEGEND

- EXISTING 1-FT CONTOUR
- LIMITS OF DISTURBANCE
- PROPOSED ACCESS
- PROPOSED SILT FENCE - TBD
- WATER MAINS
- SANITARY MAINS
- PROPOSED RIPRAP



SCALE IN FEET

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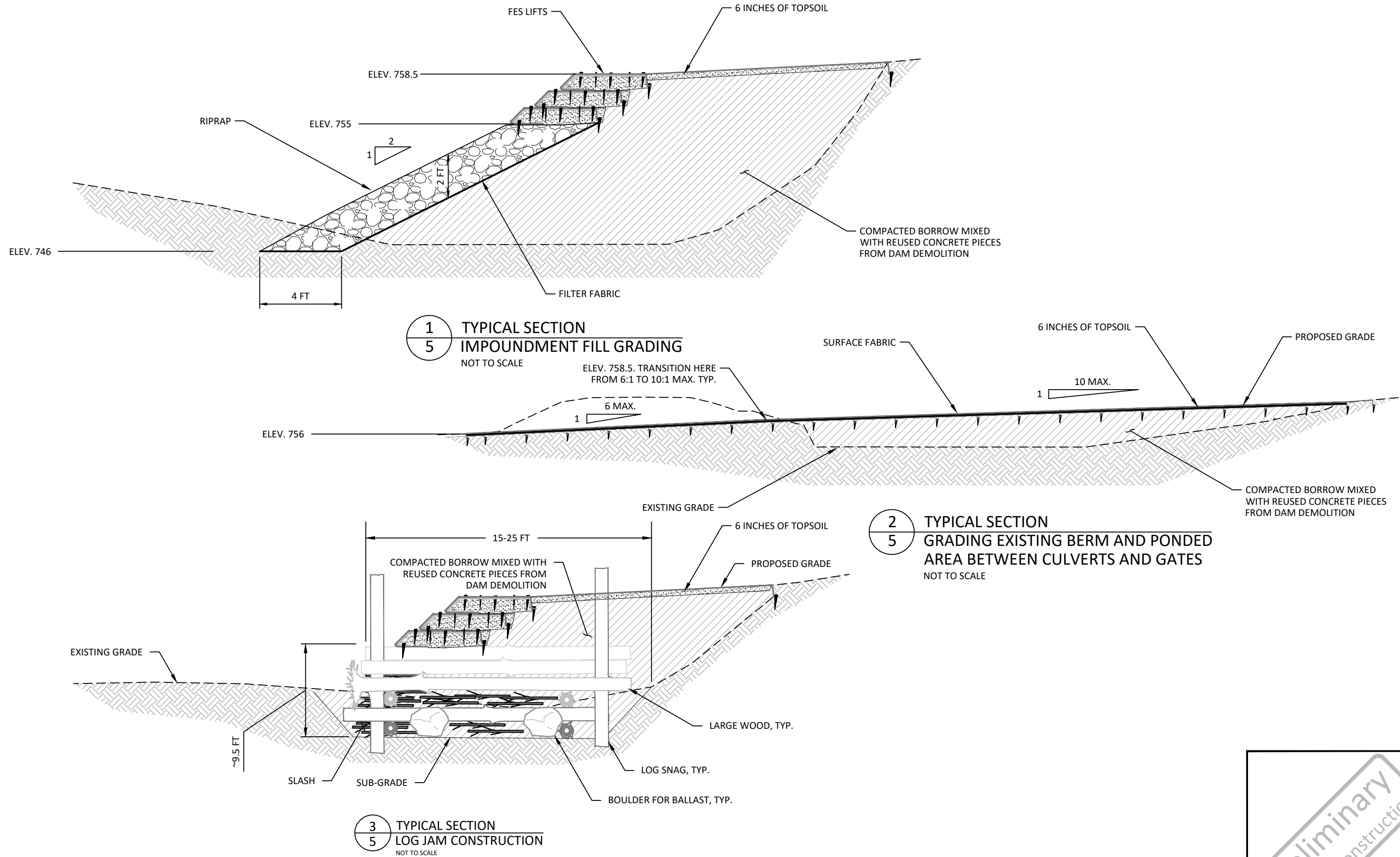


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PROPOSED CONDITIONS
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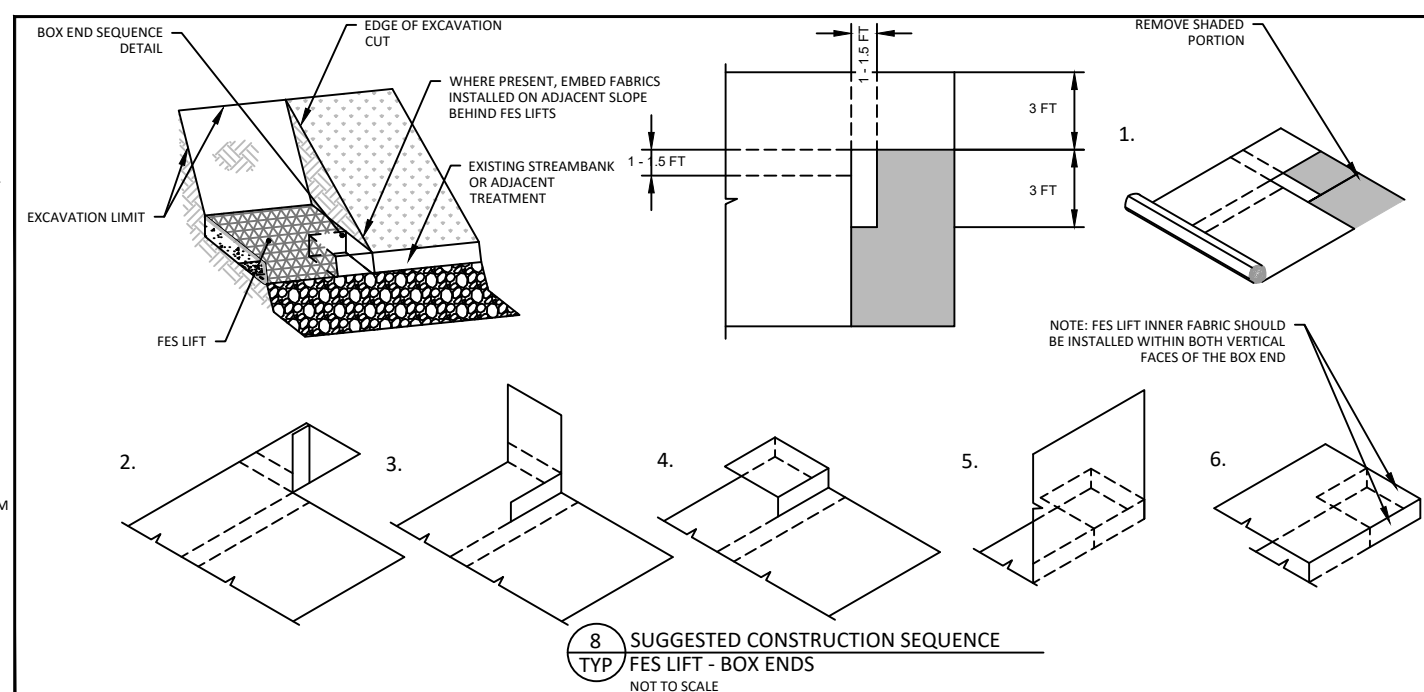
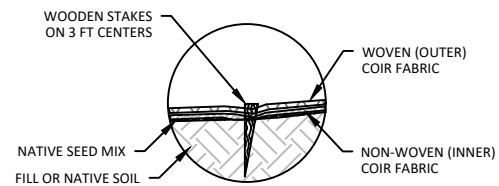
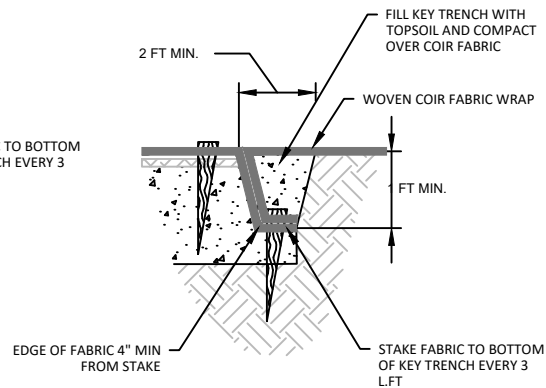
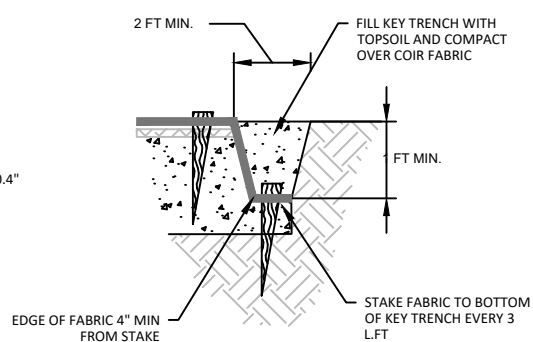
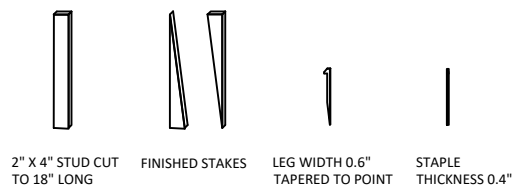
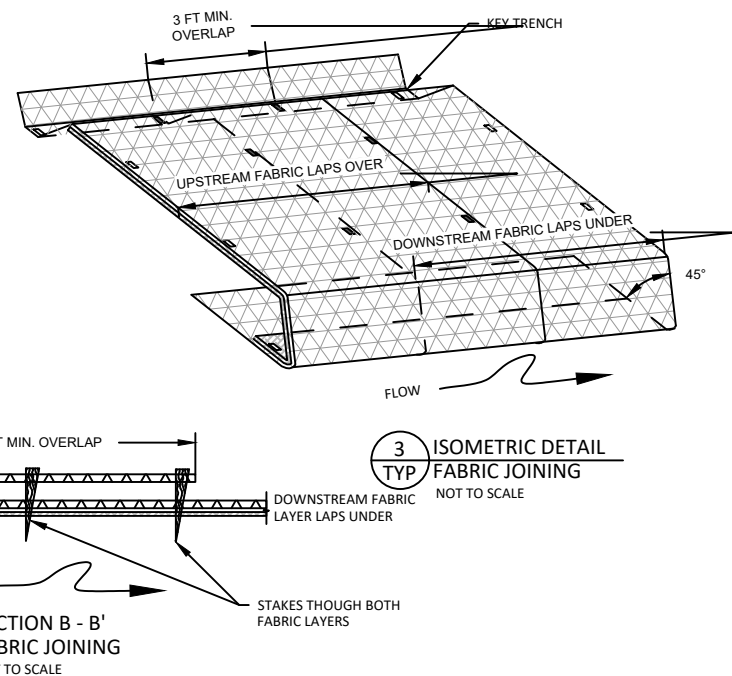
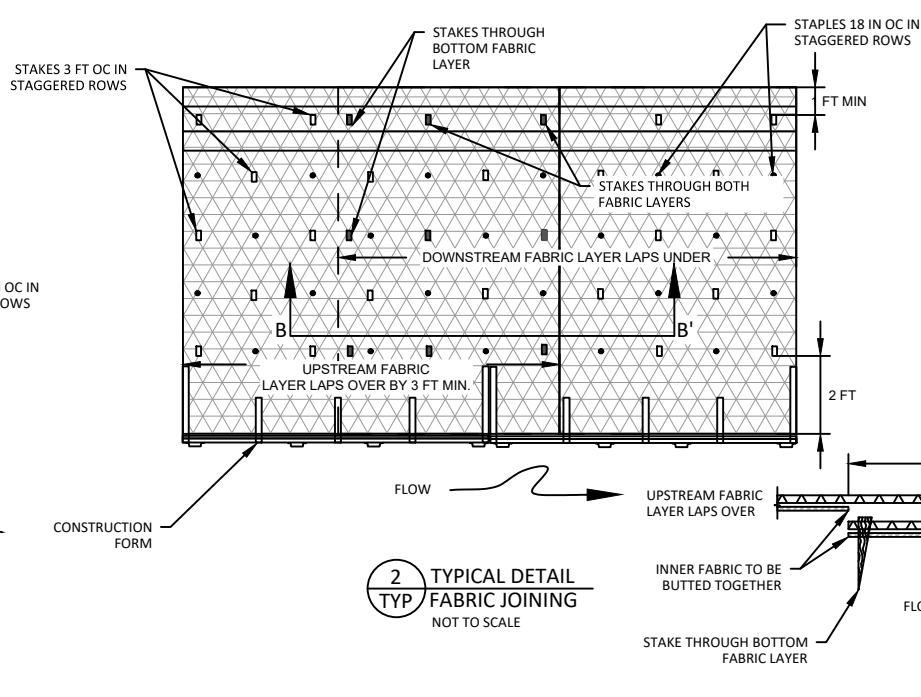
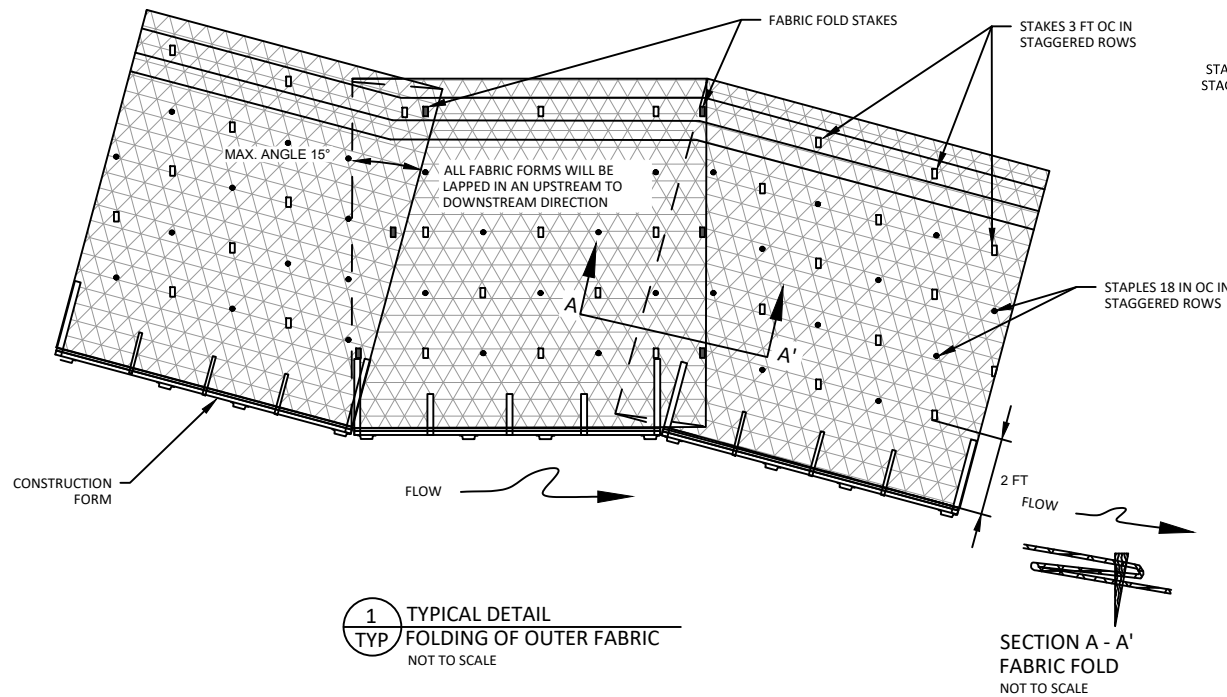
TYPICAL DETAILS
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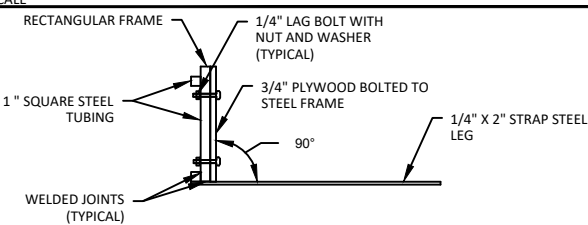
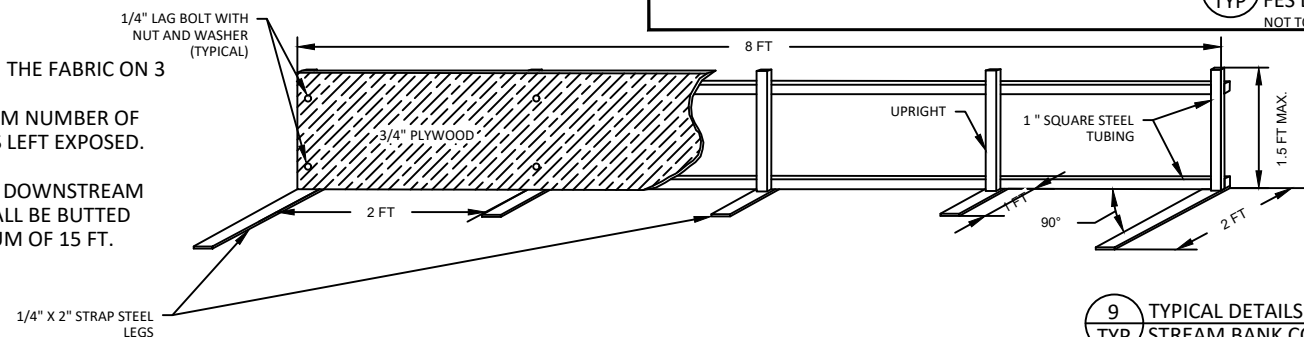
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GENERAL NOTES ON SECURING COIR FABRIC

1. SECURE THE OUTER FABRIC (WOVEN, WHERE APPLICABLE), WITH A WOODEN STAKE THROUGH THE FABRIC ON 3 FT CENTERS (SEE DETAIL VIEWS 1 & 2)
NOTE: THE HOLES FOR STAKES SHALL NOT BE PRECUT. ALLOW THE STAKE TO BREAK THE MINIMUM NUMBER OF STRANDS AS IT IS BEING DRIVEN IN. DRIVE STAKES SO THAT 2" TO 3" OF THE TOP OF THE STAKE IS LEFT EXPOSED.
2. OUTER FABRIC ENDS SHALL BE JOINED BY LAPPING THE UPSTREAM PIECE OF FABRIC OVER THE DOWNSTREAM PIECE AS SHOWN IN DETAIL X. OVERLAPS SHALL BE A MINIMUM OF 3 FT, INNER FABRIC ENDS SHALL BE BUTTED TOGETHER, NOT OVERLAPPED. OVERLAPS SHALL BE STAGGERED FROM LIFT TO LIFT BY A MINIMUM OF 15 FT.
3. STAKING SPACING IS DEFINED IN SPECIFICATIONS FOR FES LIFT AND SURFACE FABRIC.



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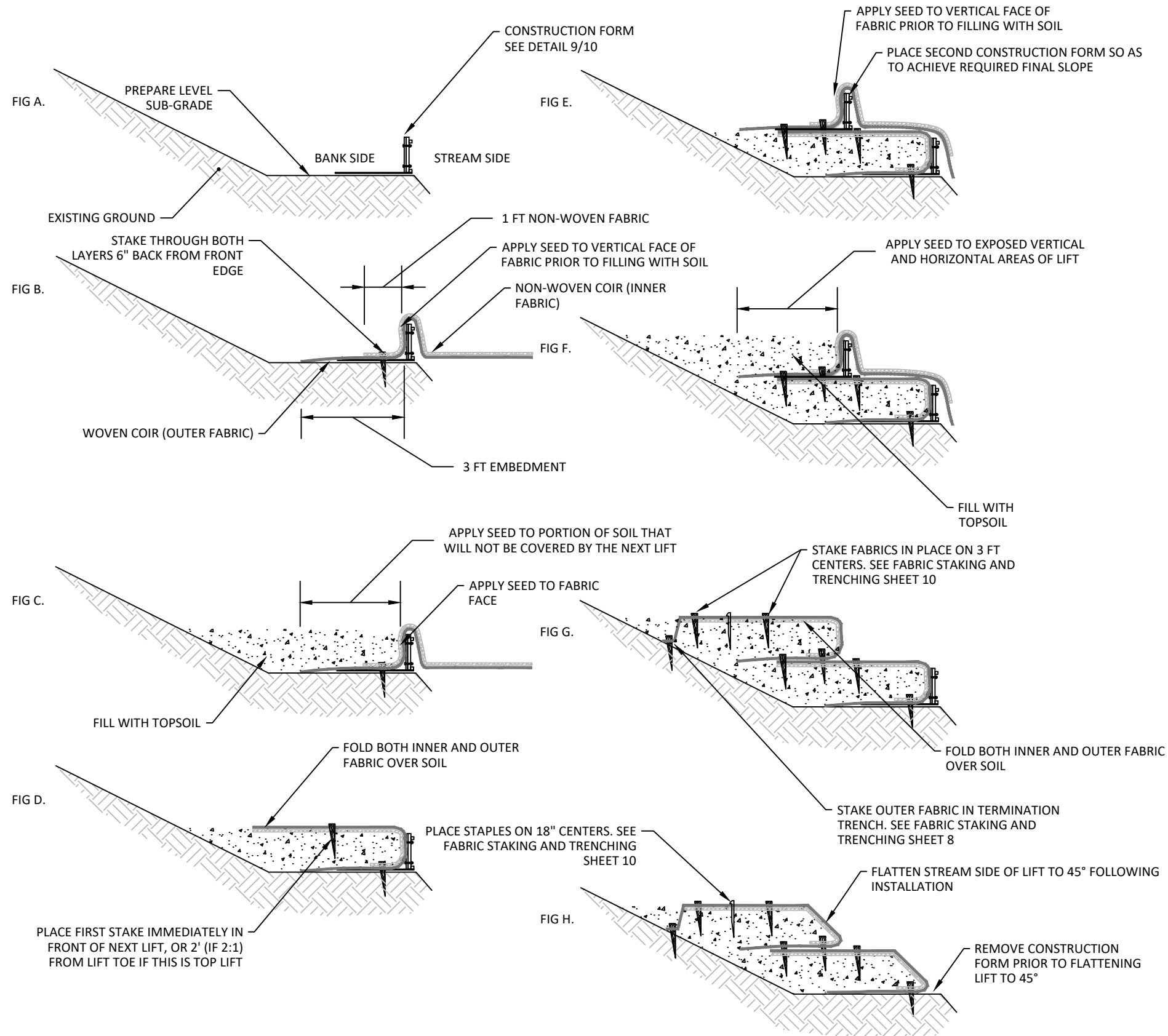
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SUGGESTED SEQUENCE FOR PLACEMENT OF FORMS

PROFILE VIEW LOOKING INTO BANK



FIG 1. PLACE A ROW OF CONSTRUCTION FORMS ALONG DESIRED CHANNEL ALIGNMENT FOR FIRST FES LIFT.



FIG 2. CONSTRUCT FES LIFTS ALONG LENGTH OF FIRST SET OF FORMS AND THEN BEGIN PLACEMENT OF FORMS AND CONSTRUCTION OF SECOND LIFT.

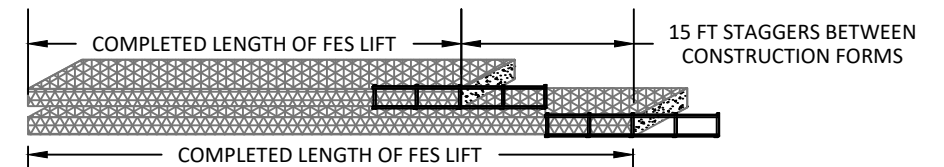


FIG 3. STAGGER FABRIC OVERLAPS A MINIMUM OF 15 FT BETWEEN LIFTS.

GENERAL INSTRUCTIONS FOR FABRIC ENCAPSULATED LIFTS

1. BANKS MAY BE CONSTRUCTED IN EITHER AN UPSTREAM OR DOWNSTREAM DIRECTION, AS LONG AS THE FABRIC IS OVERLAPPED IN THE PROPER DIRECTION.
2. PLACE A SERIES OF THREE OR MORE FORMS ON THE GROUND SO THAT THE FORMS FOLLOW THE PROPOSED STREAM BANK ALIGNMENT. BUTT THE ENDS OF THE FORMS TIGHTLY TOGETHER.
3. UNROLL THE OUTER FABRIC PARALLEL TO THE LONG AXIS OF THE CHANNEL AND POSITION IT SO THAT 3 FEET EXTENDS FOR EMBEDMENT ON THE BANK SIDE OF THE FORMS (FIG B), AND A MINIMUM 3 FEET EXTENDS LENGTHWISE BEYOND THE LAST FORM FOR OVERLAP. DRAPE THE REMAINDER OF THE FABRIC OVER THE TOP OF THE FORMS ON THE STREAM SIDE (FIG B).
4. UNROLL THE INNER FABRIC OVER THE TOP OF THE WOVEN COIR FABRIC (FIG B) AND POSITION IT SO THAT AT LEAST 1 FOOT OF THE INNER FABRIC EXTENDS AS AN EMBEDMENT LENGTH ON THE BANK SIDE OF THE FORMS (FIG C). DRAPE THE REMAINDER OF THE FABRIC OVER THE TOP OF THE FORMS ON THE STREAM SIDE AND ALIGN THE LONG EDGES OF THE FABRICS. STRETCH AND PULL THE FABRIC LAYERS TO REMOVE WRINKLES.
5. APPLY NATIVE SEED MIX TO INNER FABRIC ALONG VERTICAL EDGE OF LIFT (FIG C). PLACE SPECIFIED FILL OVER THE FABRIC ON THE BANK SIDE OF THE FORMS. LEVEL THE FILL AND COMPACT TO 85-90 PERCENT RELATIVE COMPACTION (FIG C).
6. APPLY NATIVE SEED MIX TO TOP OF FILL FROM THE FRONT OF THE LIFT TO 3 FT BACK FROM FRONT OF THE LIFT (FIG C).
7. FOLD THE LOOSE ENDS OF THE TWO COIR FABRIC LAYERS BACK OVER THE COMPACTED FILL MATERIAL AND STRETCH TIGHTLY TO REMOVE WRINKLES (FIG D). SECURE WITH WOODEN STAKES 1 PER 3 L.F. ALONG THE BACK EDGE AND INTO UNDISTURBED SOIL.
8. REMOVE THE FORMS FROM THE FRONT OF THE COMPLETED LIFTS (FIG. 2). LEAVE THE LAST FORM IN PLACE AT THE END OF THE NEWLY CONSTRUCTED LIFT (FIG. 2).
9. WHERE THE TOP OF THE LIFT MEETS THE GROUND SURFACE, EXCAVATE A KEY TRENCH 1.5 FEET WIDE AND 1 FOOT DEEP ALONG THE EDGE OF THE OUTER FABRIC LAYER, PARALLEL TO THE FORMS. SEED ENTIRE AREA OF TOP LIFT. SECURE FABRIC IN THE KEY TRENCH WITH WOODEN STAKES, 3 FT O.C.
10. BACKFILL THE KEY TRENCH WITH TOPSOIL AND CONTINUE TO APPLY TOPSOIL TO SMOOTHLY MERGE WITH EXISTING CONTOURS. APPLY NATIVE SEED MIX TO KEY TRENCH AREA.
11. SUPPLEMENT LIFT STAKING WITH ADDITIONAL WOODEN STAPLES ON 18" CENTERS EXCEPT WHERE WOODEN STAKES HAVE ALREADY BEEN PLACED.

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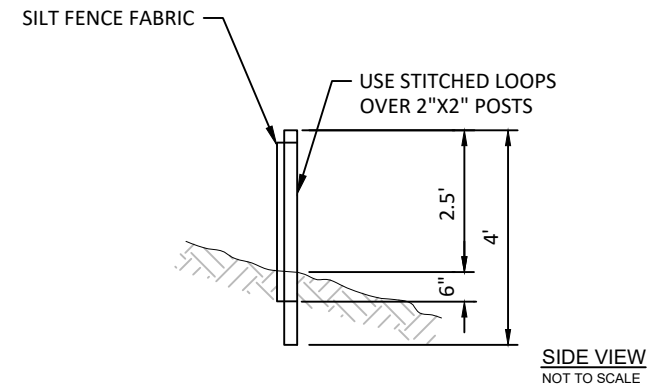
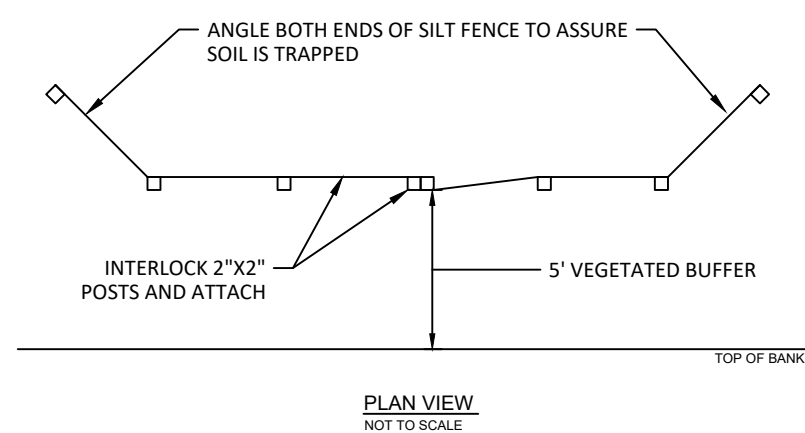
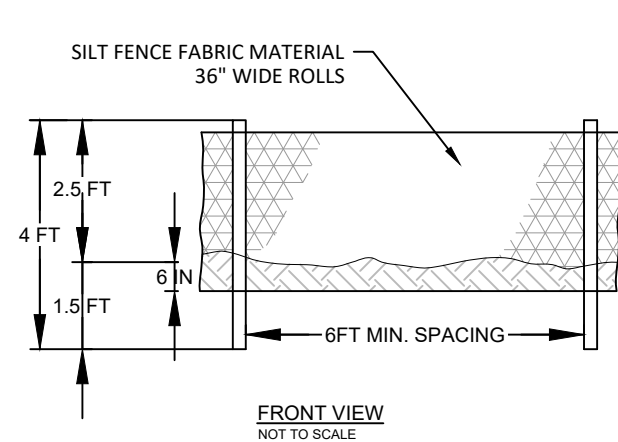


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TYPICAL DETAILS
SHEET 3 OF 4

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Preliminary
Not for Construction



1
3

TYPICAL DETAIL
SILT FENCE
NOT TO SCALE

SILT FENCE NOTES

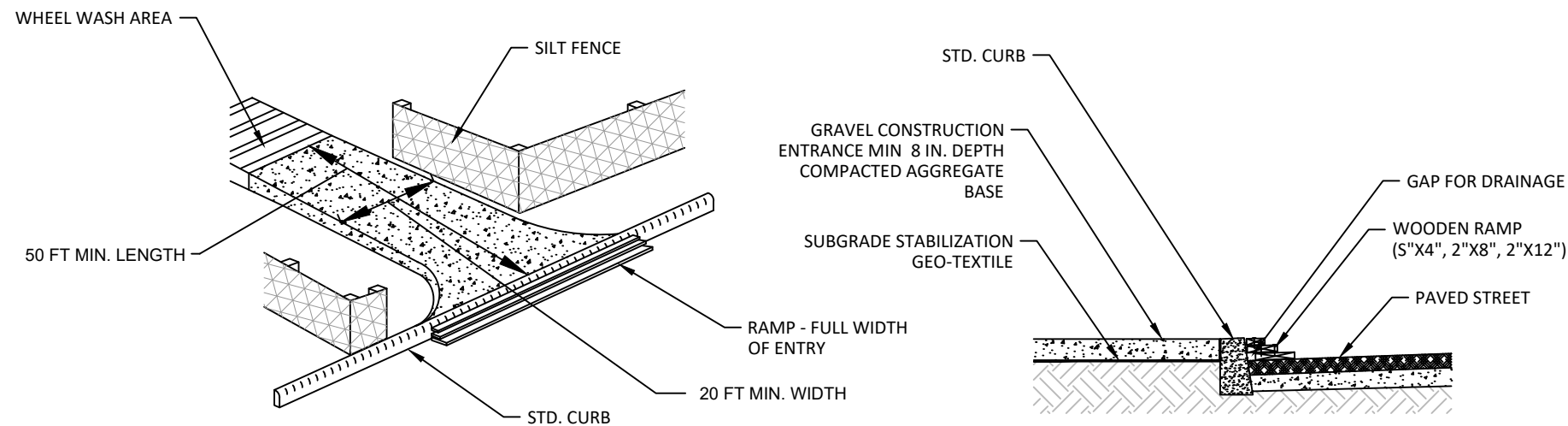
1.THE SILT FENCE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST. ALTERNATIVELY, OVERLAP AND INTERLOCK TWO POSTS WITH ATTACHED FABRIC AS APPROVED BY THE OWNER'S REPRESENTATIVE.

2.THE SILT FENCE IS TO BE INSTALLED AT LOCATIONS SHOWN IN THESE DRAWINGS ALONG THE DOWNHILL PERIMETER OF DISTURBED AREAS. THE FENCE POST SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES APART.

3. THE SILT FENCE FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6 INCHES. ALL EXCAVATED MATERIAL FROM SILT FENCE INSTALLATION SHALL BE BACK-FILLED AND COMPACTED ALONG THE ENTIRE DISTURBED AREA.

4. STANDARD OR HEAVY DUTY SILT FENCE SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2 INCHES X 2 INCHES POST INSTALLATION.

5. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.



2
3

TYPICAL DETAIL
GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE

C:\Users\gphillips\Drawings\Monterey Dam Removal\PI Monterey Dam Removal.dwg - gphillips - 8/24/2017

NO.	DATE	REVISION DESCRIPTION	DF, CP, BL	BW	BW
			DRAWN	DESIGNED	CHECKED
			BW	8/24/17	15-04-13
			APPROVED	DATE	PROJECT

MONTEREY DAM REMOVAL
CITY OF JANESVILLE
JANESVILLE, WI



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TYPICAL DETAILS
SHEET 4 OF 4

SHEET
12 OF 12

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